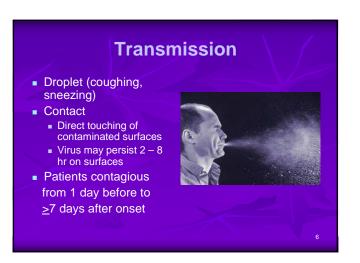


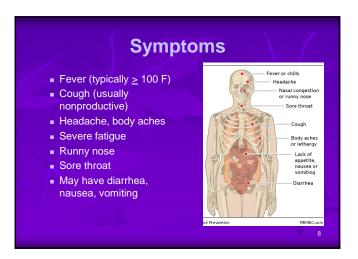
Biology of Influenza Divided into 2 types that spread human disease Influenza A H1N1 H3N2 Influenza B New Quadrivalent vaccines have 2 Influenza B like antigens

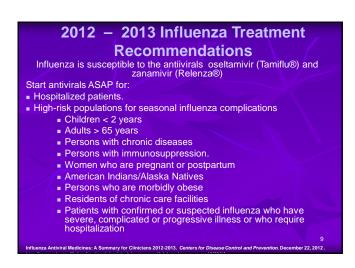
Influenza Immunity Seasonal epidemics are the result of antigenic drift Flu vaccine is reevaluated every year to address antigenic drift. When antigenic shift occurs a new subtype of influenza A appears and can cause a pandemic (Novel H1N1) because there are no pre-existing antibodies.

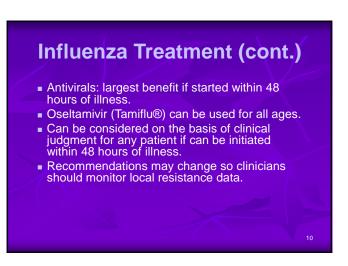
Influenza Spread Spread by contact with an infected person through: Sneezing Coughing Touching items recently contaminated by a person with the flu virus

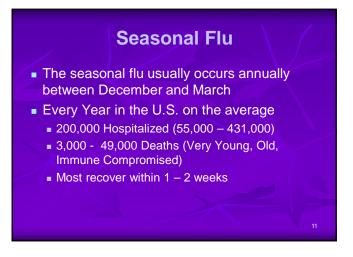










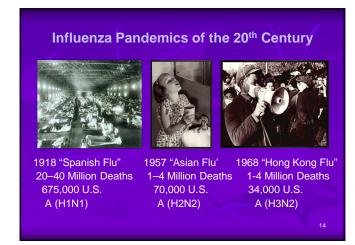




Seasonal vs. Pandemic Flu

- Seasonal flu is predictable Pandemic flu is not
- Pandemic flu is caused by a novel virus strain that humans have no resistance against
- Pandemic flu infects large numbers of people of different ages globally and can cause serious illness and deaths

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The most cost effective way to combat influenza is to prevent it by **immunization** and **good hygiene.**

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Influenza Immunization Recommendation

- The CDC recommends vaccination of all persons aged ≥ 6 months of age
- Vaccination to prevent influenza is particularly important for persons who are at increased risk for severe complications from influenza, or at higher risk for influenza-related outpatient, emergency department, or hospital visits.

NO I.E. If there is a vaccine shortage and/or late armval of vaccine supplies (especially early in the flu season), it is appropriate to use contingency plans to vaccinate those persons with high-risk conditions rather than those who wish to reduce risk, or all persons 50 years of age or over until adequate vaccine supplies are available.

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Newly Licensed Flu Vaccines

- Quadrivalent live attenuated influenza vaccine (LAIV4; Flumist® Quadrivalent [MedImmune])
- Quadrivalent inactivated influenza vaccine (IIV4; Fluarix® Quadrivalent [GlaxoSmithKline])
- Quadrivalent inactivated influenza vaccine (IIV4; Fluzone® Quadrivalent [Sanofi Pasteur]);
- Trivalent cell culture-based inactivated influenza vaccine (ccllV3; Flucelvax® [Novartis]),
- Recombinant hemagglutinin (HA) vaccine (RIV3; FluBlok® [Protein Sciences]),

...

Note on Abbreviations

- IIV (Inactivated Influenza Vaccine, previously TIV).
 - IIV3 (trivalent)
 - IIV4 (quadrivalent)
- RIV (recombinant hemagglutinin influenza vaccine)
- LAIV

The above denote vaccine categories; numeric suffix specifies the number of antigens in the vaccine.

 Where necessary to refer specifically to cell culturebased vaccine, the prefix "cc" is used (e.g., "ccIIV3").

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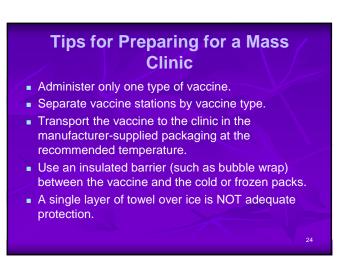
Inactivated Influenza Vaccine (IIV) 2013 - 2014 FORMULA: A/California/7/2009(H1N1) – like antigen; A/Victoria/361/2011(H3N2) – like antigen; B/Massachusetts/2/2012 – like antigen. B/Brisbane/60/2008-like antigen only in the new quadrivalent vaccines. Per CDC Advisory Committee on Immunizations Practices (ACIP): Within approved indications and recommendations, no preferential recommendation is made for any type or brand of licensed influenza vaccine over another.

Flu Shots vs. Flu Mist Flu Shot Intramuscular Healthy persons Ages 2 – 49 years Immunization into the muscle via needle Few contraindications No pregnant women Anyone ≥ 6 months No history of wheezing No aspirin therapy Flu Shot Intradermal No contact with severely immunocompromised people Intradermal injection with needle inserted perpendicular to the skin in the deltoid area Ages 18 through 64 Dose is 1/5 volume of IM immunization (and requires less antigen) Few contraindications More local side effects than intramuscular









Research on Prefilling Syringes

- Increased risk for administration errors.
- Increased vaccine wastage.
- Risk of inappropriate vaccine storage conditions.
- Bacterial growth in vaccines that do not contain a preservative.
- Reduced vaccine potency.

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Tips for Prefilling Syringes at a Mass Clinic

- Draw up <1 vial or 10 doses.
- Replenish supply throughout the day.
- Monitor patient flow to avoid drawing up unnecessary doses.
- Discard any syringes other than those filled by the manufacturer at the end of the clinic day.

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Vaccine Administration Record

- VAR for clients
- VAR for DHSS staff

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2013 – 2014 SHS Community Clinic Logistics

- All clinics this year are walk-in (no appointments)
 - DPH staff will be meeting with each venue prior to event.
 - Clients will arrive early.
 - Ideally clients will be separate from staging area until clinic is scheduled to open.
 - If large amount of clients in beginning may want to consider assigning numbers.
 - All staff will report one hour before clinic start time.

00

Community Clinic Staffing

- DPH greeter (may also serve as billing staff in smaller clinics)
 - Hand out VAR
 - Direct to table to complete VAR
 - Answer questions about VAR
 - Inform clients to have Medicare card ready
- Medicare billing staff (2 3 people)
 - Ensure VAR is complete, signed.
 - Completes Medicare billing sheet
 - Use Medicare card and completed VAR to fill out demographics.
 - Client must sign
- Screen children for VFC eligibility (On VAR)

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Community Clinic Staffing (continued)

- Lead Nurse
 - Answers questions of staff
 - Discusses clinic process with Instructors (Instructors to sign off on each VAR completed by students, Instructors and students need to have viewed this presentation).
 - Ensures DMRC volunteers have completed paperwork
 - Ensures clinic runs smoothly.
 - All requests for additional or restock of supplies to be requested via lead nurse.
- Nurses (1 to 4) (at least 2 nurses are required at flu clinics).
- Check VAR for contraindications for vaccine (Bring your 2013 Standing Orders)
- Administer vaccine
- Complete VAR and sign
- Check for adverse effects

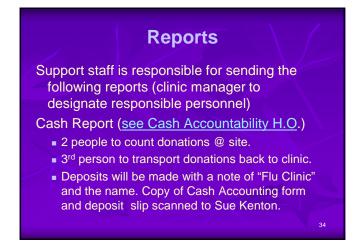
ALL DPH STAFF WILL SET UP/BREAK DOWN VACCINATION AREAS

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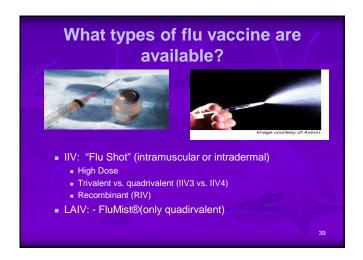


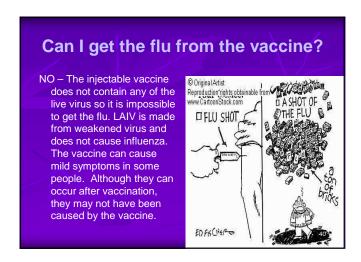












What are the CDC vaccination recommendations?

All persons aged ≥ 6 months of age.

Who should not be vaccinated? People with severe allergies to eggs or other vaccine components. People who have had a severe allergic reaction to past influenza vaccination. Children younger than 6 months of age.

Why do I need to get vaccinated against the flu every year?

- After you get vaccinated your immunity declines over time and may be too low to provide protection after a year.
- Because the viruses mutate and become more or less prominent each year the vaccine is protecting you against different viruses.

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What are the side effects from the flu shot?



- Soreness, redness, or swelling where the shot was given,
- Fever,
- Aches,
- Life-threatening allergic reactions from vaccines are very rare. If they do occur, it is within a few minutes to a few hours after the shot.

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What are the side effects from the FluMist®?

Children (2 - 17 ys)

- Runny nose or nasal congestion (44%) or cough
- Fever (7% children fever >100° F)
- Headaches and muscle aches
- Wheezing
- Abdominal pain or occasional vomiting or diarrhea

A severe allergic reaction could occur after any vaccine (estimated at <1 in a million doses).



- Runny nose or nasal congestion (32%)
- Sore throat (reported by 19% of adults)
- Cough, chills, tiredness/weakness
- Headache



Will pneumonia vaccine be offered at community flu clinics?

- Pneumonia vaccine will only be available at the DPH Immunization clinics at State Service Centers.
- Pneumonia vaccine can be given throughout the year (not seasonal), therefore can be administered during a routine doctor's visit.

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